BookletChart™

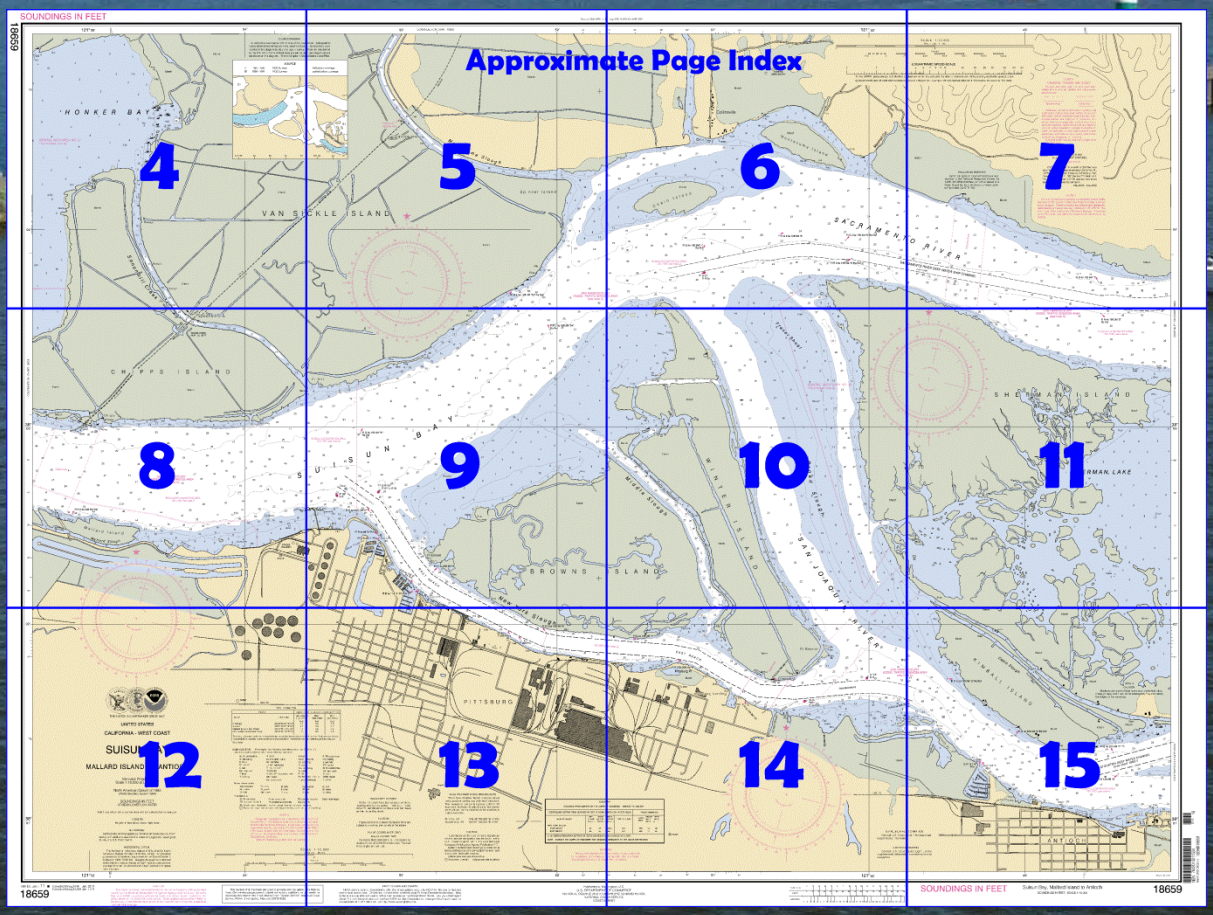
Suisun Bay – Mallard Island to Antioch

NOAA Chart 18659

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.

- *Complete, reduced-scale nautical chart*
- *Print at home for free*
- *Convenient size*
- *Up-to-date with Notices to Mariners*
- *Compiled by NOAA's Office of Coast Survey, the nation's chartmaker*



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

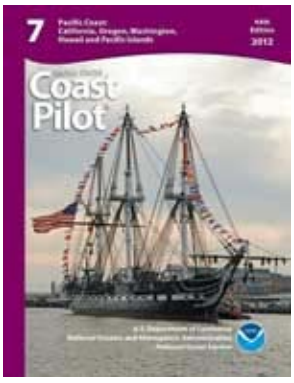
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=18659.

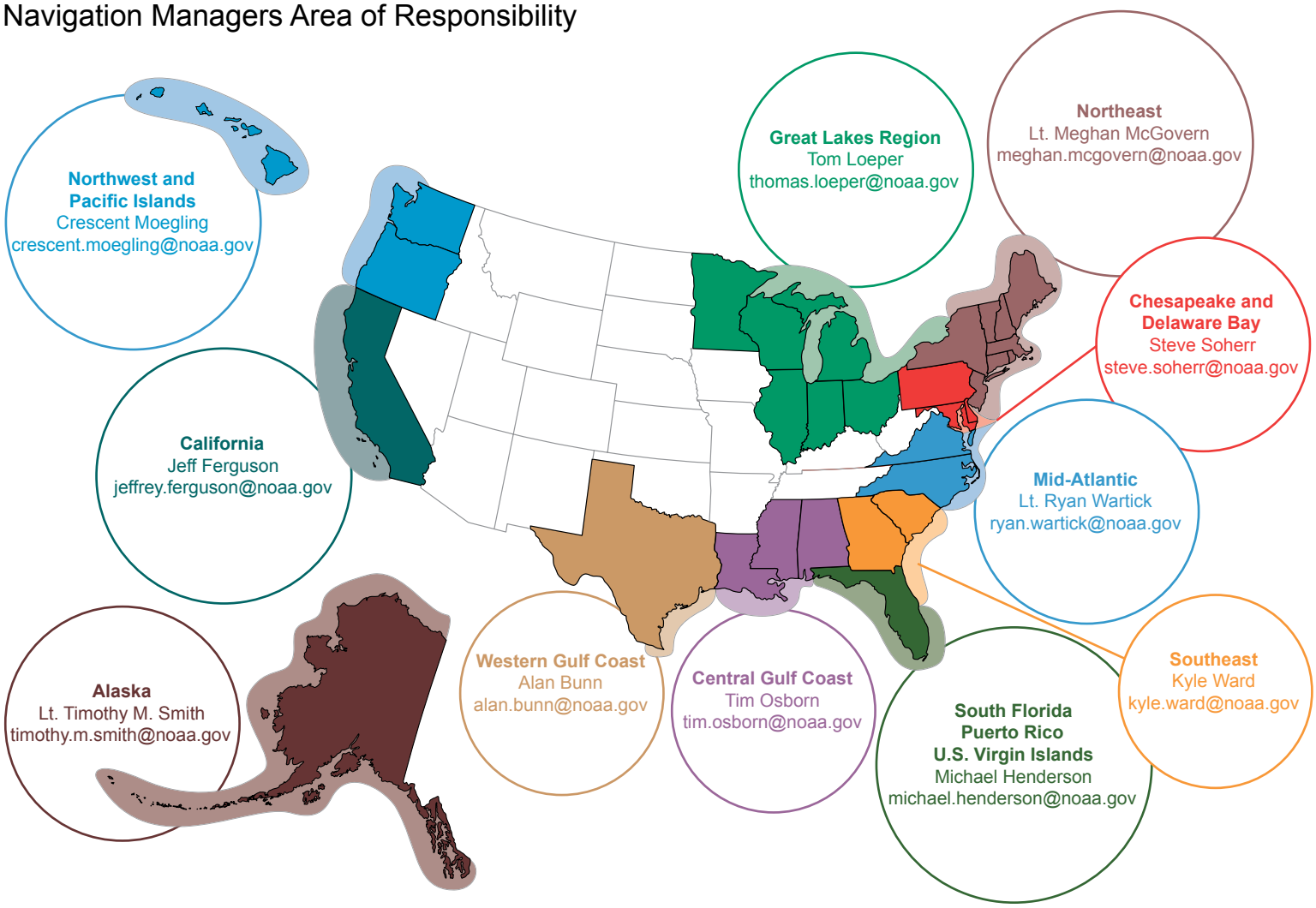


(Selected Excerpts from Coast Pilot)
Pittsburg, on the S side of New York Slough 12 miles E of Suisun Point bridges, is a manufacturing city with several deepwater berths.
The PGE-Pittsburg Fuel Pier, about 0.3 mile W of **New York Point**, is an offshore wharf with 1,070 feet of berthing space, 35 feet alongside, and a deck height of 14 feet. It is used for receiving and transshipping petroleum products.
The Diablo Service Corp. Wharf, about 0.6 mile E of New York Point is an offshore wharf with 1,154 feet of berthing space with dolphins, 35 feet alongside, and deck height of 12 feet. There is a conveyer system and crawler tractors. Rail and highway connections, and water and electrical shore-power connections are available. It is owned by Tosco Corp. and is used for the receipt of petroleum coke.
USS-Posco Industries, Pittsburg Wharf, about 1.3 mile E of New York Point, is a 891-foot marginal wharf with depths of 33 feet alongside and a deck height of 11 feet. Three 37½-ton cranes are available, and there are rail and highway connections, and water and electrical shore power connections. It is used for receipt of semi-finished steel.
The Dow Chemical Co., Pittsburg Plant Wharf, about 2 miles E of New York Point, is an offshore wharf with 672 feet of berthing space with dolphins, 40 feet alongside and a deck height of 20 feet. It is used for shipment and receipt of caustic soda.
Antioch on the S side of San Joaquin River 16 miles E of Suisun Point bridges, is a manufacturing city with waterborne commerce.
Georgia-Pacific Corp., Antioch Plant Wharf, about 38°00'56"N., 121°47'08"W., is a 197-foot offshore wharf, 780 feet usable with dolphins, with 31 feet alongside and a deck height of 11 feet. A conveyor system is available for the receipt of gypsum rock. Highway connections, and water and electrical shore power connections are available.
Gaylord Container Corp., California Mill Wharf, about 0.5 mile E of Kaiser Gypsum Co. Pier, is a 291-foot offshore wharf, 766 total berthing space, with depths of 35 feet alongside. Receipt of miscellaneous dry bulk commodities.
There are also barge facilities at Antioch.
The Fulton Shipyard, on the E edge of the city, has a marine railway that can haul out vessels up to 350 tons for general repairs. The yard repairs auxiliary vessels such as towboats and barges.
Several small-craft facilities are at Pittsburg and Antioch. (See the small-craft facilities tabulation on chart 18652 for services and supplies available.)

U.S. Coast Guard Rescue Coordination Center
24 hour Regional Contact for Emergencies

RCC Alameda	Commander 11th CG District Alameda, CA	(510) 437-3700

Navigation Managers Area of Responsibility

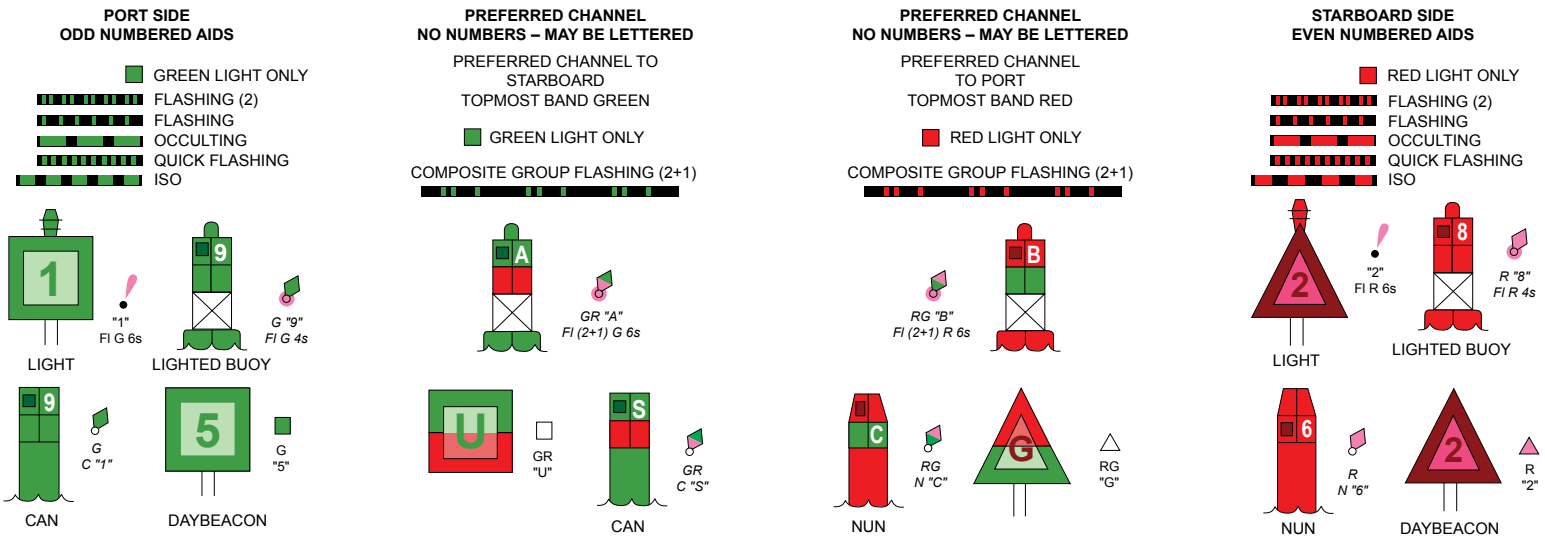


NOAA's navigation managers serve as ambassadors to the maritime community. They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit *nauticalcharts.noaa.gov/service/navmanagers*

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*.
To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at *http://www.navcen.uscg.gov*

SOUNDINGS IN FEET

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

Nautical Miles

0

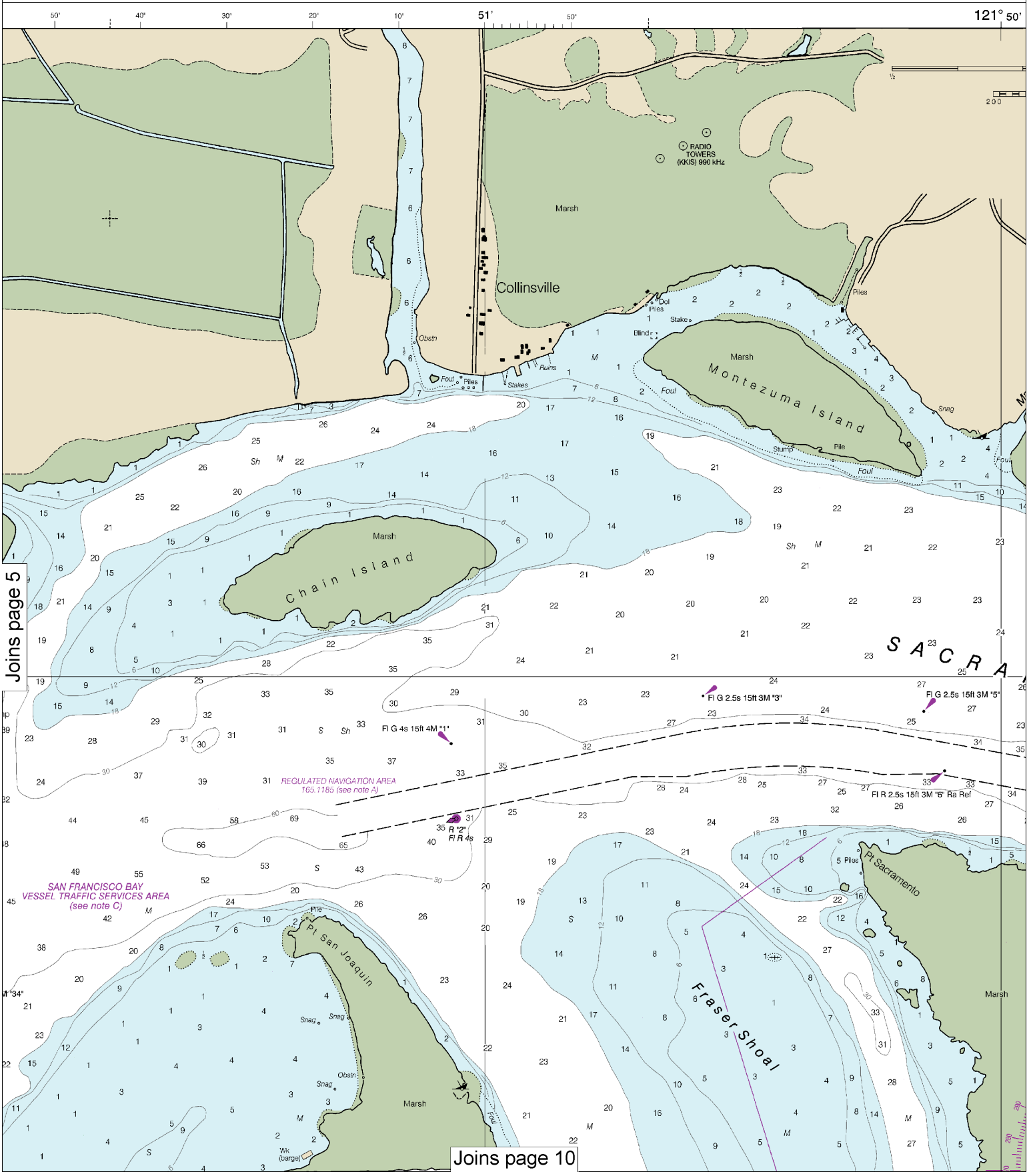
Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.

This BookletChart was reduced to 70% of the original chart scale. The new scale is 1:14285. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

Formerly C&GS 5576, 1st. Ed., Aug. 1953 G-1953-831 KAPP 1852



6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

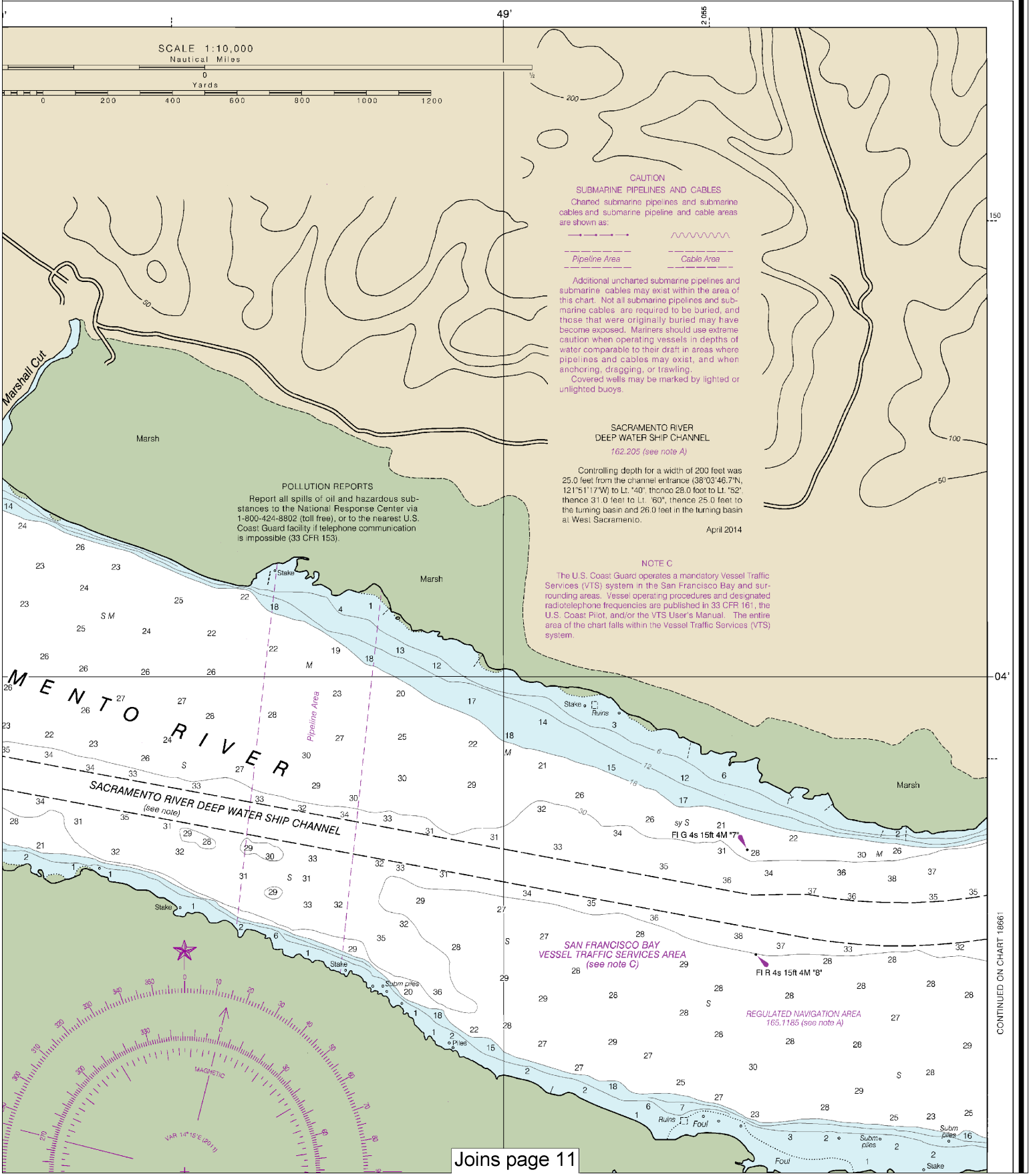
Nautical Miles

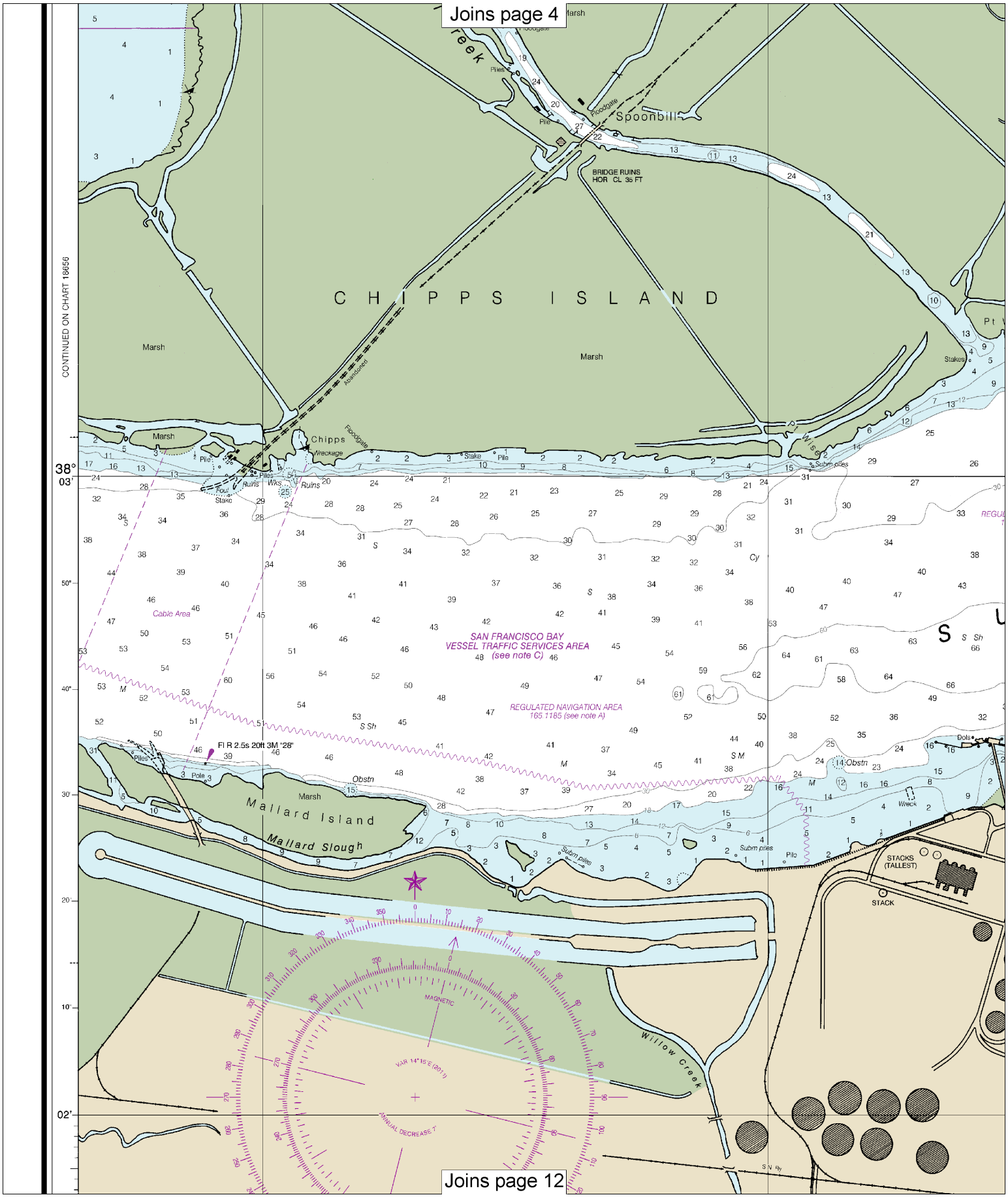
0

Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.


SCALE 1:10,000
Nautical Miles
0
Yards
0 200 400 600 800 1000 1200
49'
2.055
04'
150
100
50
200
CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:
Pipeline Area
Cable Area
Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.
SACRAMENTO RIVER
DEEP WATER SHIP CHANNEL
162.205 (see note A)
Controlling depth for a width of 200 feet was 25.0 feet from the channel entrance (38°03'46.7"N, 121°51'17"W) to Lt. "40", thence 28.0 feet to Lt. "52", thence 31.0 feet to Lt. "60", thence 25.0 feet to the turning basin and 26.0 feet in the turning basin at West Sacramento.
April 2014
POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).
NOTE C
The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the San Francisco Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. The entire area of the chart falls within the Vessel Traffic Services (VTS) system.
Marshall Cut
Marsh
Marsh
Marsh
MENTO RIVER
SACRAMENTO RIVER DEEP WATER SHIP CHANNEL
(See note)
Pipeline Area
SAN FRANCISCO BAY
VESSEL TRAFFIC SERVICES AREA
(see note C)
REGULATED NAVIGATION AREA
165.1185 (see note A)
Fl G 4s 15ft 4M "7"
Fl R 4s 15ft 4M "8"
Stake
Ruins
Foul
Subm piles
Piles
MAGNETIC
VAR 14° 15'E (2011)
CONTINUED ON CHART 1866
Joins page 11



8

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

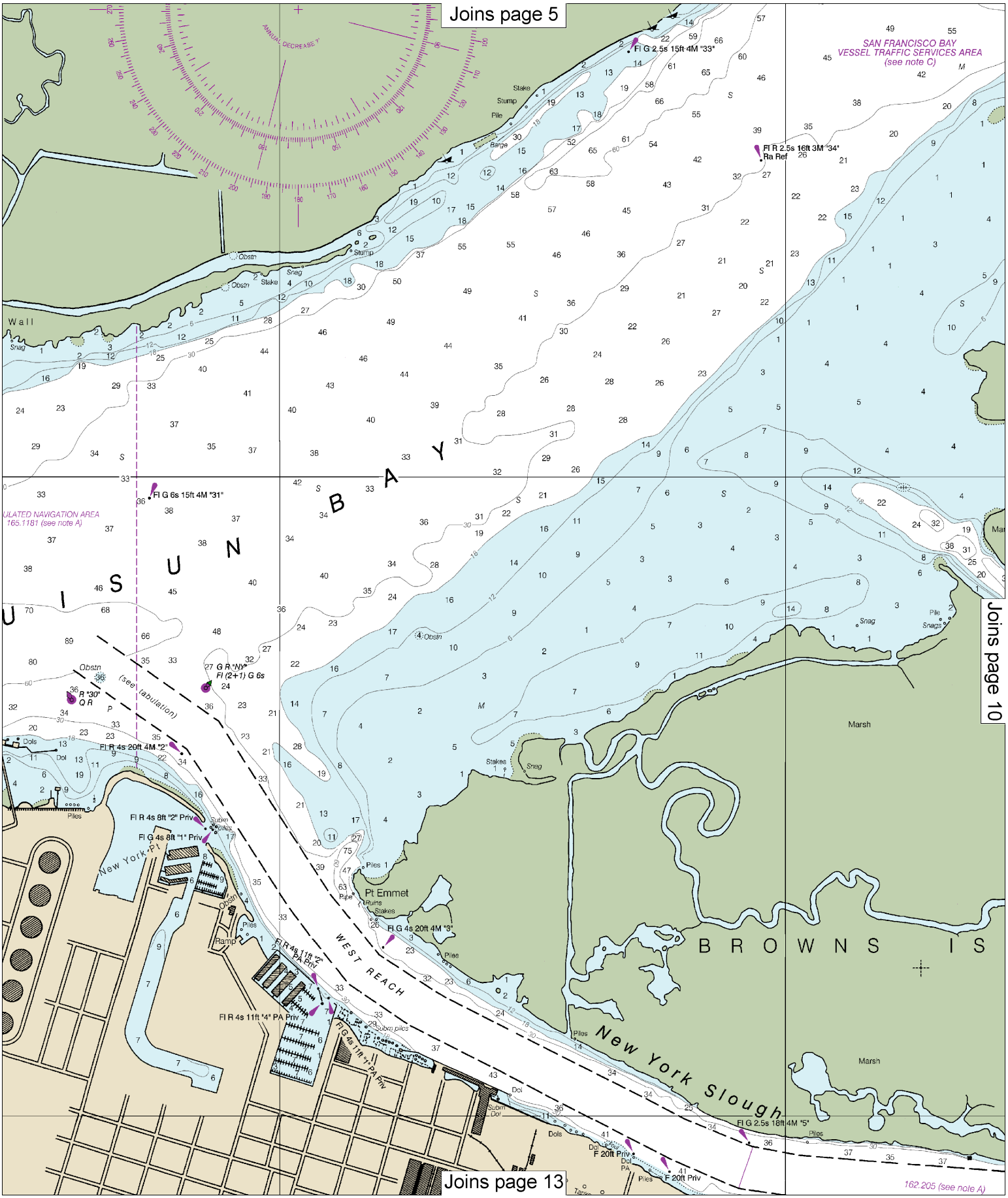
Nautical Miles

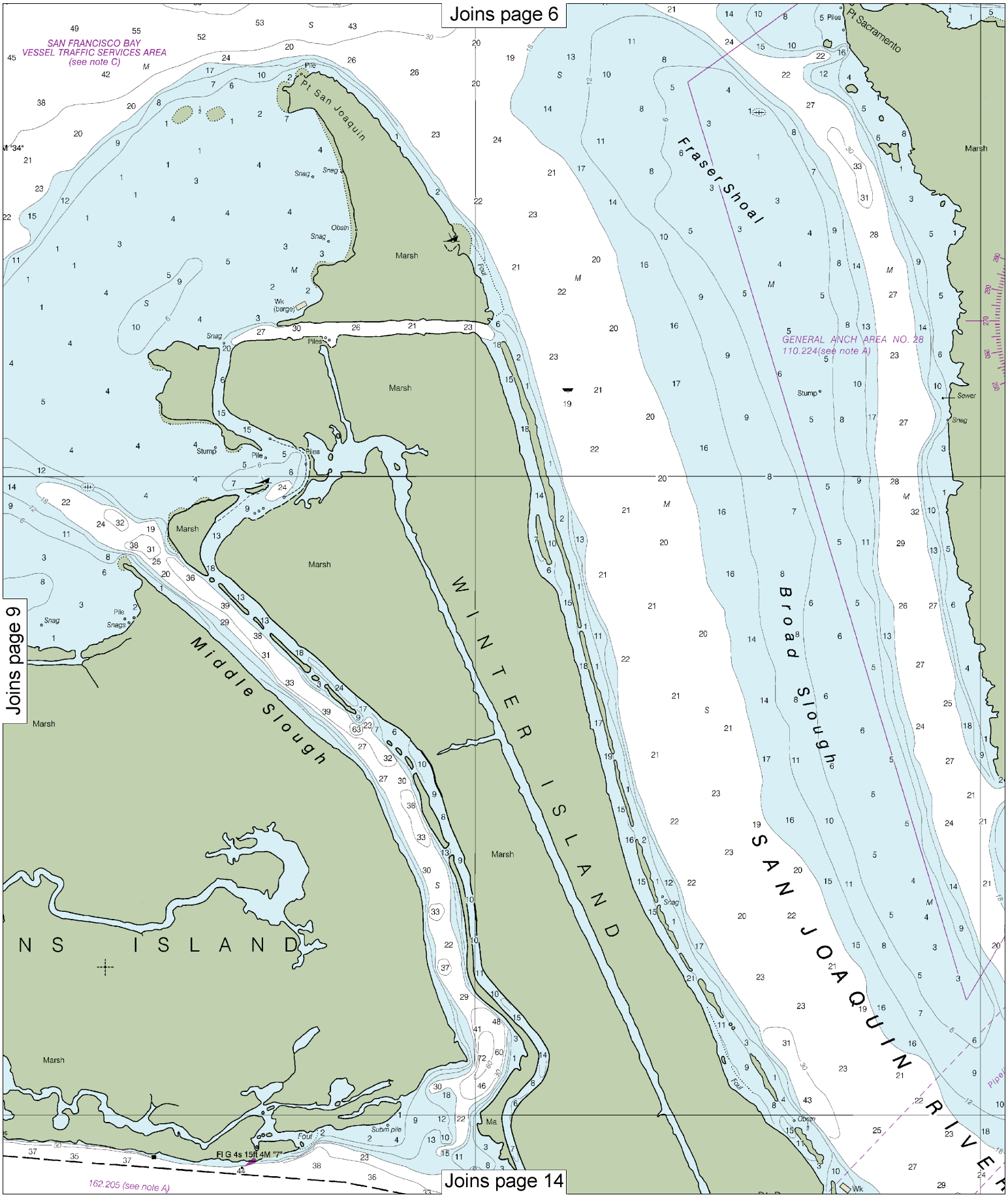
0

Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.


Joins page 5
SAN FRANCISCO BAY
VESSEL TRAFFIC SERVICES AREA
(see note C)
Fl G 2.5s 15ft 4M "33"
Fl R 2.5s 16ft 3M "34"
Ra Ref
Fl G 6s 15ft 4M "31"
ULATED NAVIGATION AREA
165.1181 (see note A)
SAN PABLO BAY
RICHMOND
Joins page 10
G R "N"
Fl (2+1) G 6s
R "30"
Q R
(see tabulation)
Fl R 4s 20ft 4M "2"
Fl R 4s 8ft "2" Priv
Fl G 4s 8ft "1" Priv
New York Pt
Pt Emmet
Fl G 4s 20ft 4M "3"
WEST REACH
Fl R 4s 11ft "4" PA Priv
Fl G 4s 11ft "1" PA Priv
BROWNS IS
New York Slough
Fl G 2.5s 18ft 4M "5"
F 20ft Priv
Marsh
Joins page 13
162.205 (see note A)



Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

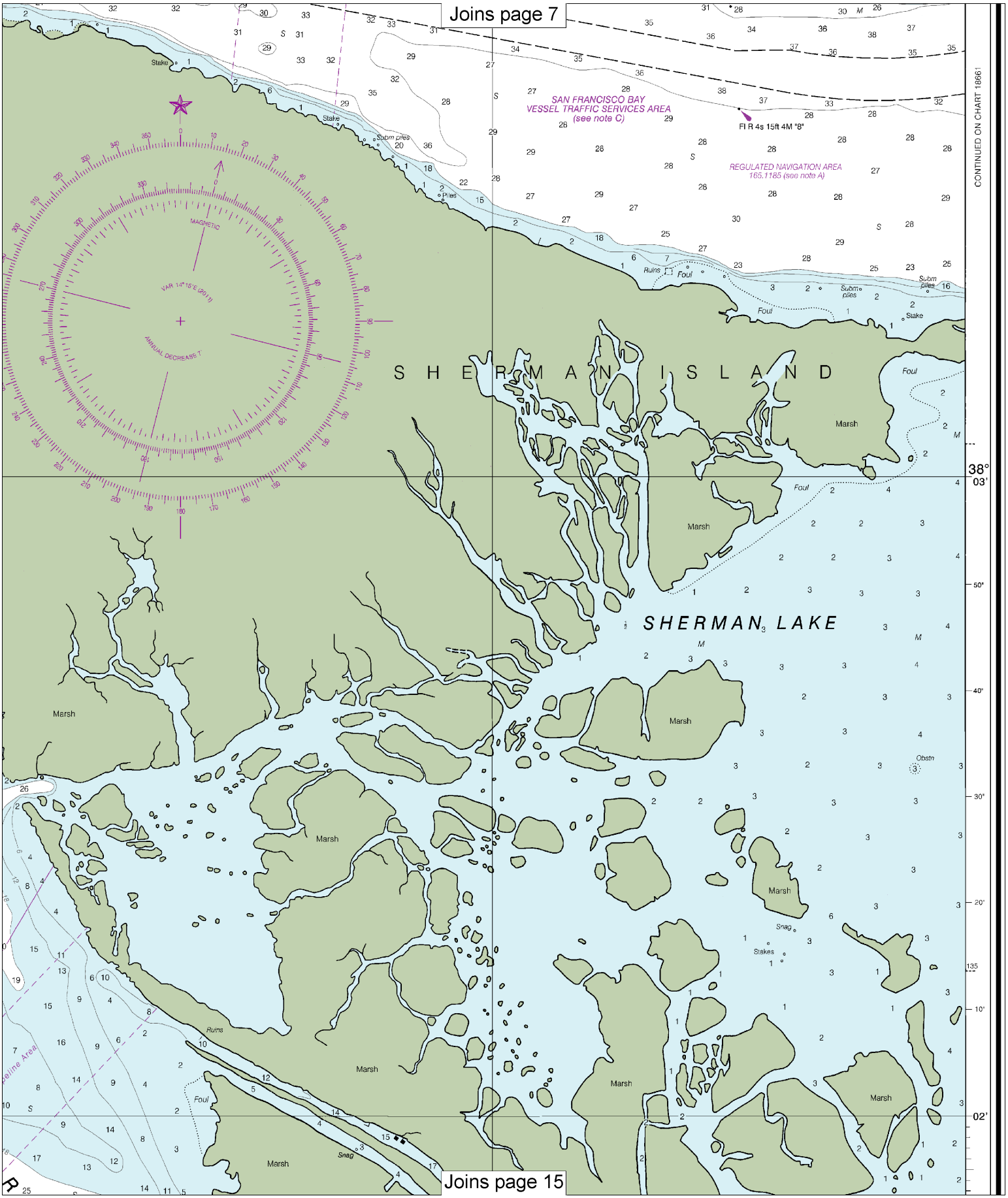
Nautical Miles

0

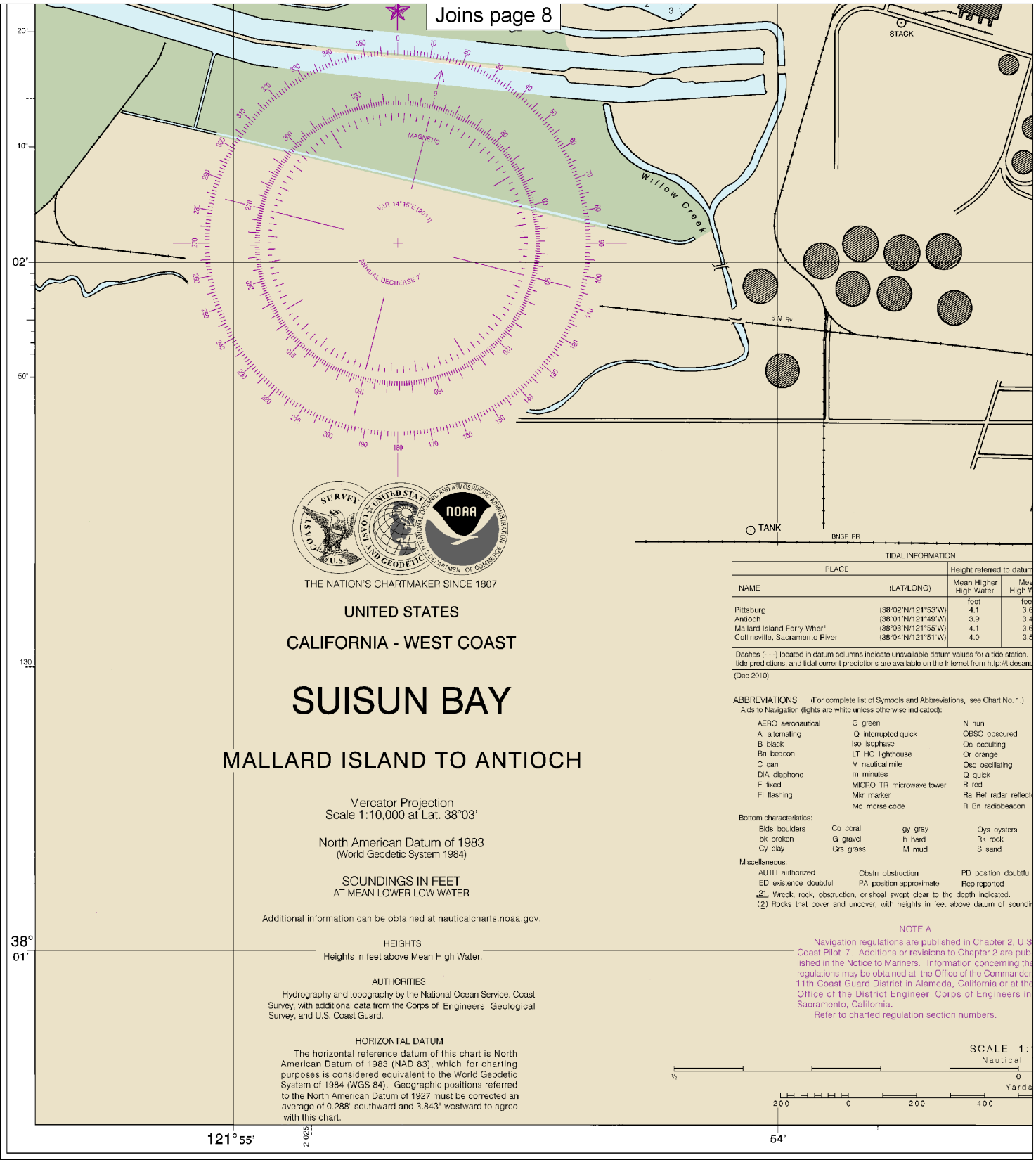
Yards

200 0 200 400 600 800 1000 1200

See Note on page 5.


Joins page 7
SAN FRANCISCO BAY
VESSEL TRAFFIC SERVICES AREA
(see note C)
Fl R 4s 15ft 4M "8"
REGULATED NAVIGATION AREA
165.1185 (see note A)
CONTINUED ON CHART 18661
S H E R M A N I S L A N D
S H E R M A N L A K E
MAGNETIC
VAR 14° 15'E (2011)
ANNUAL DECREASE 7'
38° 03'
50'
40'
30'
20'
10'
02'
Marsh
Foul
Ruins
Subm piles
Piles
Stake
Snag
Stakes
Obstn
Joins page 15

Joins page 8



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

CALIFORNIA - WEST COAST

SUISUN BAY

MALLARD ISLAND TO ANTIOCH

Mercator Projection
Scale 1:10,000 at Lat. 38°03'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

HEIGHTS
Heights in feet above Mean High Water.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.288" southward and 3.843" westward to agree with this chart.

TIDAL INFORMATION

PLACE NAME	(LAT/LONG)	Height referred to datum: Mean Higher High Water	Mea High W
		feet	fee
Pittsburg	(38°02'N/121°53'W)	4.1	3.6
Antioch	(38°01'N/121°49'W)	3.9	3.4
Mallard Island Ferry Wharf	(38°03'N/121°55'W)	4.1	3.6
Collinsville, Sacramento River	(38°04'N/121°51'W)	4.0	3.5

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. tide predictions, and tidal current predictions are available on the Internet from http://tidesand

(Dec 2010)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	N nun
Al alternating	IQ interrupted quick	OBSC obscured
B black	Iso isophase	Oc occulting
Bn beacon	LT HO lighthouse	Or orange
C can	M nautical mile	Osc oscillating
DIA diaphone	m minutes	Q quick
F fixed	MICRO TR microwave tower	R red
Fl flashing	Mkr marker	Ra Ref radar reflecto
	Mo morse code	R Bn radiobeacon

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters
bk broken	Gl gravel	h hard	Rk rock
Cy clay	Grs grass	M mud	S sand

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful
ED existence doubtful	PA position approximate	Rep reported

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundir

NOTE A

Navigation regulations are published in Chapter 2, U.S Coast Pilot 7. Additions or revisions to Chapter 2 are publ lished in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in Sacramento, California.

Refer to charted regulation section numbers.

SCALE 1:
Nautical
1/2 0
Yards
200 0 200 400

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

18659

16th Ed., Jan. 2011. Last Correction: 10/26/2016. Cleared through:
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016)

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200

um of soundings (MLLW)

Mean Water	Mean Low Water
eet	foot
3.6	0.6
3.4	0.6
3.6	0.6
3.5	0.6

n. Real-time water levels, ndcurrents.noaa.gov.

R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
ctor WHIS whistle
Y yellow

so soft
Sh shells
sy sticky

ful Subm submerged

dings.

S.
lb-
he
er,
he
in

: 10,000
Miles

600 800 1000 1200

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

PLANE COORDINATE GRID
(based on NAD 1927)

California State Grid Zone 11, is indicated by dashed ticks at 5,000 foot intervals. The last three digits are omitted.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Mt. Pise, CA KHB-49 162.400 MHz WX2
Sacramento, CA KEC-57 162.550 MHz WX1

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) ○(Approximate location)

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SU

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF
NEW YORK SLOUGH				
WEST REACH	33	34	36A	8-1
EAST REACH	34	35	33	8-1

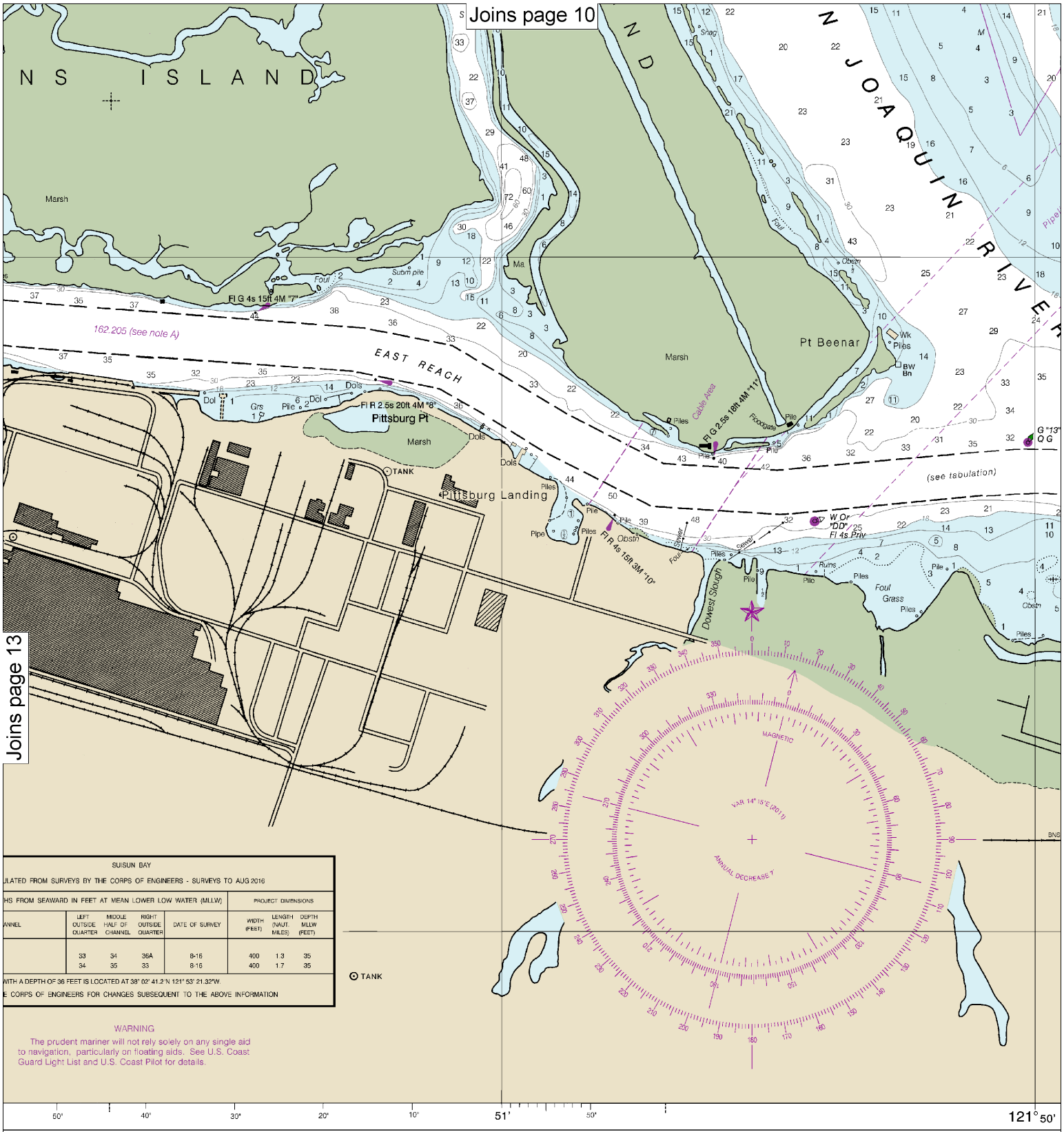
A. AN OBSTRUCTION WITH A DEPTH OF 36 FEET IS LOCATED AT 38° 02' 41.2"N 121° 53' 2

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO T

WARNING

The prudent mariner will not rely solely on a to navigation, particularly on floating aids. Se Guard Light List and U.S. Coast Pilot for detail

Published at Washington, D.C.
U.S. DEPARTMENT OF COMME
NATIONAL OCEANIC AND ATMOSPHERIC AD
NATIONAL OCEAN SERVICE
COAST SURVEY



SUISUN BAY

ULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2016

HS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
ANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
	33	34	36A	8-16	400	1.3	35
	34	35	33	8-16	400	1.7	35

WITH A DEPTH OF 36 FEET IS LOCATED AT 38° 02' 41.2"N 121° 53' 21.32"W.
E CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
TIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

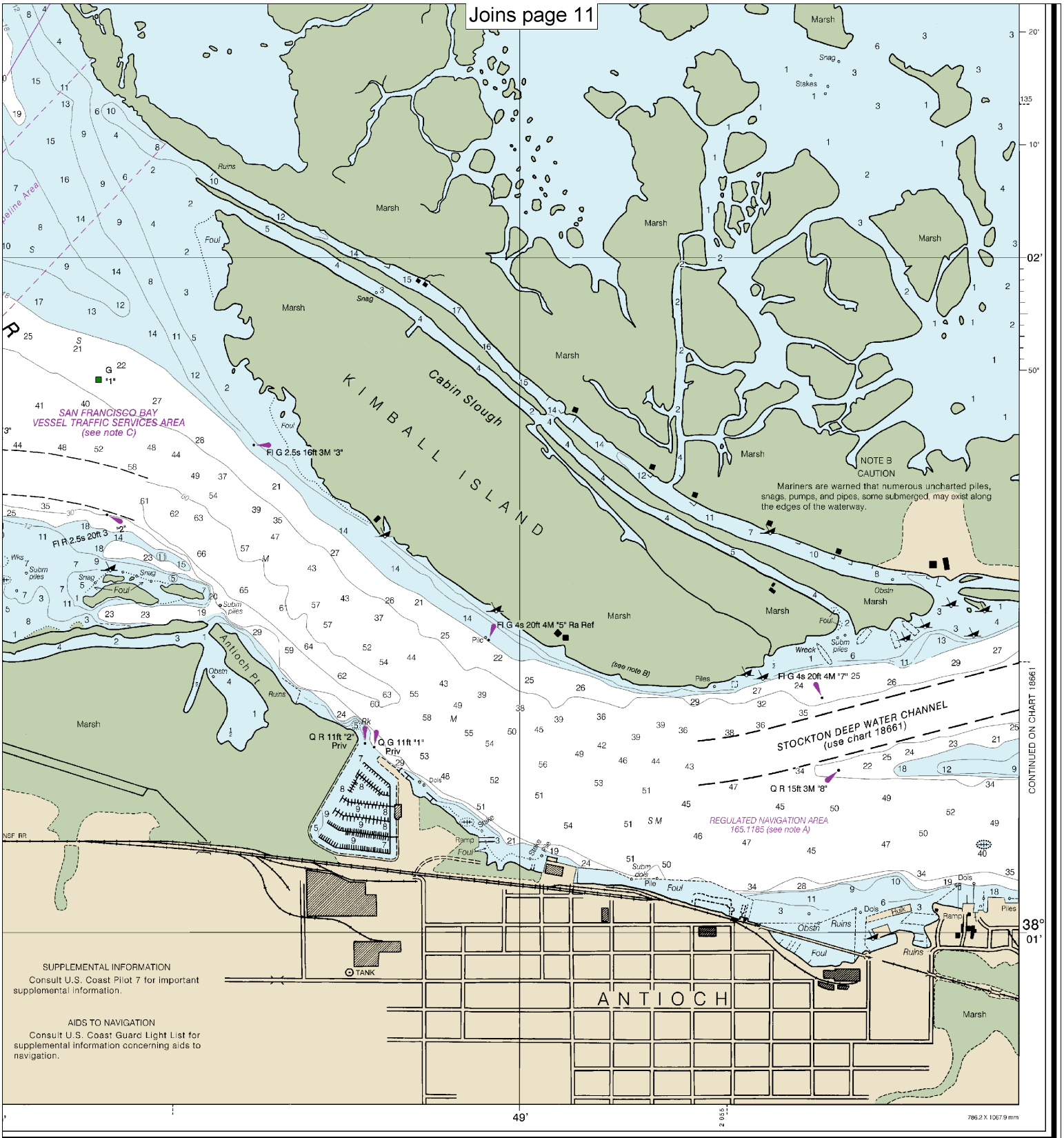
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	
FEET	6	12	18	24	30	36	42	48	54	60	66	72	
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:10,000~~

Nautical Miles
0
Yards
200 0 200 400 600 800 1000 1200

See Note on page 5.



SOUNDINGS IN FEET

Suisun Bay, Mallard Island to Antioch

SOUNDINGS IN FEET - SCALE 1:10,000

18659

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

All Hazards NOAA Weather Radio NOAA's National Weather Service

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.
http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information	—	**http://www.nauticalcharts.noaa.gov**
Interactive chart catalog	—	**http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml**
Report a chart discrepancy	—	**http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx**
Chart and chart related inquiries and comments	—	**http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs**
Chart updates (LNM and NM corrections)	—	**http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html**
Coast Pilot online	—	**http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm**
Tides and Currents	—	**http://tidesandcurrents.noaa.gov**
Marine Forecasts	—	**http://www.nws.noaa.gov/om/marine/home.htm**
National Data Buoy Center	—	**http://www.ndbc.noaa.gov/**
NowCoast web portal for coastal conditions	—	**http://www.nowcoast.noaa.gov/**
National Weather Service	—	**http://www.weather.gov/**
National Hurrican Center	—	**http://www.nhc.noaa.gov/**
Pacific Tsunami Warning Center	—	**http://ptwc.weather.gov/**
Contact Us	—	**http://www.nauticalcharts.noaa.gov/staff/contact.htm**

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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey The Nation's Chartmaker